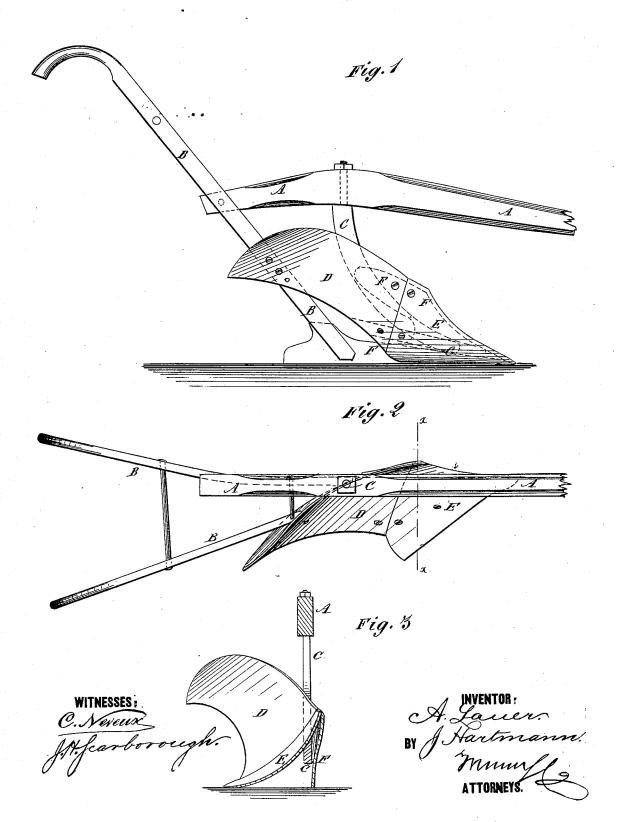
A. LAUER & J. HARTMANN.

PLOWS.

No. 190,500.

Patented May 8, 1877.



UNITED STATES PATENT OFFICE

ANTON LAUER AND JULIUS HARTMANN, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 190,500, dated May 8, 1877; application filed March 3, 1877.

To all whom it may concern:

Be it known that we, ANTON LAUER and JU-LIUS HARTMANN, of Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Improvement in Plows, of which the following is a specification:

Figure 1 is a side view of our improved plow. Fig. 2 is a top view of the same. Fig. 3 is a cross-section of the same.

Similar letters of reference indicate corre-

sponding parts.

The object of this invention is to furnish an improved center-draft plow which shall be so constructed that there will be no friction upon the land-side, and that will enable the point to be made of steel.

The invention will first be described in connection with the drawing, and then pointed

out in the claim.

A is the beam, the rear end of which is connected with the handles B. To the beam A is attached the upper end of the standard C, which is made of wrought-iron, is curved forward into position to receive and support the mold-board D, the point E, and the land side F. The mold-board D is made of steel, and is securely connected with the mold-board handle B, the standard C, the point E, and the land side F. The point E is made of steel, in the general form of a triangle, and with the rear part of its upper edge curved upward to adapt it to serve as a colter. This construction enables the point to be made of steel. The land-side

edges of the mold-board D and point E project an inch and a half upon the land-side of the beam to make the plow center-draft, and to relieve the land-side from friction. land-side F is made of cast-steel, and in two parts. The lower part of the land-side F is attached to the land-side handle B and to the standard C. The upper part of the land side F extends up as high upon the standard C as the mold-board D, and is made with a curve upward and outward, so that its forward edge may meet and coincide with the land-side edges of the mold-board D and point E.

This construction relieves the land-side from friction, and gives great strength and firm-

ness to the plow.

Having thus described our invention, we claim as new and desire to secure by Letters

Patent-

The land-side F, having its upper part extended upward upon the standard as high as the mold-board, and having an upward and outward curve, to cause its forward edge to coincide with the land-side edges of the mold-board D and concave point E, in combination with the said mold-board and point, and with the standard C, substantially as herein shown and described.

> ANTON LAUER. JULIUS HARTMANN.

Witnesses:

R. W. HAYS. Jos. CLEMENT.